

=> file wpids

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FILE LAST UPDATED: 17 APR 97

<970417/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK

9716

<199716/DW>

DERWENT WEEK FOR CHEMICAL CODING: 9708

DERWENT WEEK FOR POLYMER INDEXING: 9713

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>>> PCT PUBLICATIONS FROM 19 DECEMBER 1996 - SEE NEWS <<<

=> s 89de-3922005/ap, prn

MISSING OPERATOR

=> s de89-3922005/prn

L1 1 DE89-3922005/PRN

=> d

L1 ANSWER 1 OF 1 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 91-009053 [02] WPIDS

DNC C91-003968

TI Transition and rare earth metal complexes - of tri aza-penta acids
useful as NMR contrast media for kidney and gastro-intestinal tract.

DC B05

IN GRIES, H; PLATZEK, J; SCHMITT-WILLICH, H; SCHUHMANN-GIAMPIERI, G;
VOGLER, H; WEINMANN, H; SCHUHMANN, G; SCHUHMANN-GAMPIEN, G;
SCHMITTWIL, H; SCHUHMANN, G; WEINMANN, H J; PLATZEK, H; PLAT-ZEK, J

PA (SCHD) SCHERING AG; (SCHM-I) SCHMITT-WILLICH H; (SCHD) SCHERING
BERLIN & BERGKAMEN AG

CYC 30

PI EP 405704 A 910102 (9102)*

R: AT BE CH DE ES FR GB GR IT LI LU NL SE

→ DE 3922005 A 910110 (9103)

AU 9058024 A 910103 (9108)

NO 9002925 A 910102 (9109)

PT 94541 A 910208 (9109)

CA 2020142 A 901231 (9112)

FI 9003295 A 901231 (9115)

HU 54622 T 910328 (9117)

ZA 9005129 A 910424 (9122)

JP 03215457 A 910920 (9144)

CS 9003174 A 911112 (9205)

DD 296276 A 911128 (9218)

NZ 234295 A 930225 (9312)

C07C229-16

AU 637111 B 930520 (9327)

C07C229-76

CZ 277926 B6 930616 (9337)

A61K049-00

TW 219356 A 940121 (9411)

C07C229-16

EP 405704 B1 941214 (9503) DE 31 pp

C07C229-04

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

→ DE 59007987 G 950202 (9510)

C07C229-04

HU 210208 B 950228 (9514)

C07F005-00

ES 2066113 T3 950301 (9515)

C07C229-04

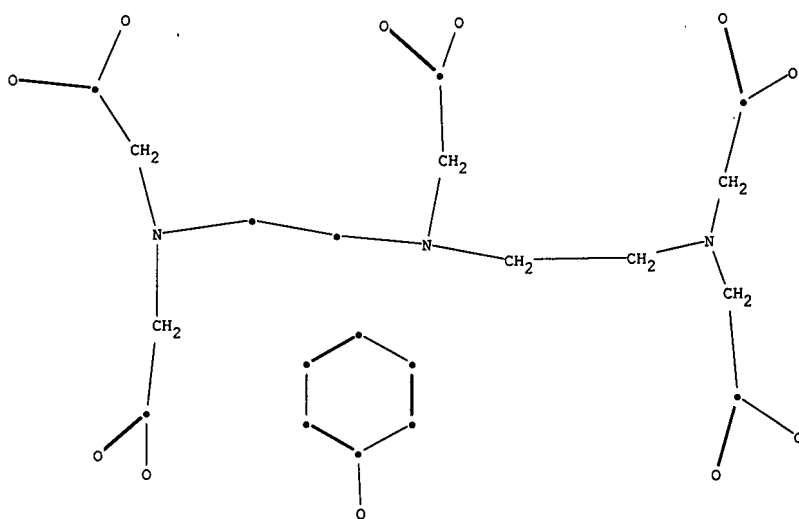
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DD 296276	B5 91102 (9602)	C07C229-76
IE 65676	B 951101 (9605)	C07C229-04
NO 179203	B 960520 (9626)	C07C229-16
IL 94818	A 960514 (9633)	C07C229-76

ADT EP 405704 A EP 90-250165 900627; DE 3922005 A DE 89-3922005 890630;
 ZA 9005129 A ZA 90-5129 900629; JP 03215457 A JP 90-170372 900629;
 NZ 234295 A NZ 90-234295 900628; AU 637111 B AU 90-58024 900629; CZ
 277926 B6 CS 90-3174 900626; TW 219356 A TW 90-109532 901110; EP
 405704 B1 EP 90-250165 900627; DE 59007987 G DE 90-507987 900627, EP
 90-250165 900627; HU 210208 B HU 90-4040 900629; ES 2066113 T3 EP
 90-250165 900627; SK 277828 B6 CS 90-3174 900626; DD 296276 B5 DD
 90-342350 900629; IE 65676 B IE 90-2299 900626; NO 179203 B NO
 90-2925 900629; IL 94818 A IL 90-94818 900621

FDT AU 637111 B Previous Publ. AU 9058024; CZ 277926 B6 Previous Publ.
 CS 9003174; DE 59007987 G Based on EP 405704; HU 210208 B Previous
 Publ. HU 54622; ES 2066113 T3 Based on EP 405704; SK 277828 B6
 Previous Publ. SK 9003174; NO 179203 B Previous Publ. NO 9002925

PRAI **DE 89-3922005 890630**

IC ICM C07C229-04; C07C229-16; C07C229-76; C07F005-00
 ICS A61K031-19; A61K031-195; A61K031-28; A61K031-295; A61K043-00;
 A61K049-02; A61K049-04; C07C053-08; C07C227-18; C07F001-08;
 C07F003-10; C07F007-00; C07F009-94; C07F011-00; C07F013-00;



08/319,357

FILE 'REGISTRY' ENTERED AT 10:05:25 ON 24 APR 1997

L1 STRUCTURE UPLOADED
L2 121 S L1 SSS' FULL

FILE 'CAPLUS' ENTERED AT 10:06:04 ON 24 APR 1997

L3 12 S L2

=> d l3 1-12 cbib, ab

L3 ANSWER 1 OF 12 CAPLUS COPYRIGHT 1997 ACS

1996:653416 Document No. 126:80220 Molecular Mechanics Investigation of Gadolinium(III) Complexes. Reichert, David E.; Hancock, Robert D.; Welch, Michael J. (Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO, 63110, USA). Inorg. Chem., 35(24), 7013-7020 (English) 1996. CODEN: INOCAJ. ISSN: 0020-1669. OTHER SOURCES: CJACS-IMAGE; CJACS.

AB Parameters for the com. available modeling package SYBYL have been developed for Gd3+ complexes allowing these to be studied with mol. mechanics. With these parameters and a technique termed the "coordination scan", the coordination nos. of Gd(III) based complexes can be predicted, and thus the hydration no. q detd. Knowledge of q has allowed the prediction of molar relaxivities based on correlations to literature values. In addn., the calcd. value .DELTA.Ecoord was found to successfully predict the thermodyn. stability consts. for polyamino carboxylate ligands with Gd3+. Gadolinium complexes are commonly utilized as MRI contrast agents, and thus the techniques utilized in this work should aid in the development of new contrast agents.

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 1997 ACS

1996:605475 Document No. 125:230822 Diagnostic imaging contrast agents with extended blood retention. McMurry, Thomas J.; Sajiki, Hironao; Scott, Daniel M.; Lauffer, Randall B. (Metasyn, Inc., USA). PCT Int. Appl. WO 9623526 A2 960808, 91 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE. (English). CODEN: PIXXD2. APPLICATION: WO 96-US164 960116. PRIORITY: US 95-382317 950201.

AB Diagnostic imaging contrast agents which exhibit improved blood retention comprise: (a) an image-enhancing (or signal-generating) moiety (e.g. a heavy metal chelate); (b) a plasma protein-binding hydrophobic moiety; and (c) a blood half-life extending hydrophilic moiety (preferably a phosphate group). These contrast agents exhibit reduced rates of both renal and hepatocellular uptake and no apparent uptake by the reticuloendothelial system. The agents may be targeted to the blood pool or any other biol. component. Since the agent is lost less rapidly from the bloodstream, lower doses can be used at a higher margin of safety. Thus, MS-323 [Ph(CH2)10OP(O)(OH)OCH2CH[N(CH2CO2H)2]CH2N(CH2CO2H)CH2CH2N(CH2CO2H)2] Gd3+ complex (I) showed >95% binding to human serum albumin and a large area under the blood concn.-time curve. I was prepd. as the N-methylglucamine salt hydrate in 4 steps from 1-hydroxymethyl-DTPA penta-tert-Bu ester (prepd. from serine Me ester and ethylenediamine).

- L3 ANSWER 3 OF 12 CAPLUS COPYRIGHT 1997 ACS
 1996:462517 Document No. 125:137213 Use of metal complexes as liver and gallbladder radiodiagnosis agents in computer tomography. Maier, Franz-Karl; Bauer, Michael; Krause, Werner; Speck, Ulrich; Schuhmann-Giampieri, Gabriele; Muehler, Andreas; Balzer, Thomas; Press, Wolf-Ruediger (Schering A.-G., Germany). PCT Int. Appl. WO 9616677 A2 960606, 18 pp. DESIGNATED STATES: W: AU, BY, CA, CN, CZ, FI, HU, JP, KR, MX, NO, NZ, PL, RU, SK, UA, VN; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (German). CODEN: PIXXD2. APPLICATION: WO 95-DE1644 951120. PRIORITY: US 94-351086 941130; US 95-387408 950213.
- AB Metal complexes consisting of a metal of at. no. 39-42, 44-51, or 56-83 and a complexing agent are used to produce x-ray contrast media for use in enhanced-contrast computed tomog. of the liver and bile ducts. The complexing agents are polyaminepolycarboxylic acids I [X = H, metal ion equiv.; x = 0-2; R1 = H, CR2R2L1(C6H4)mL2(C6H4)pL3R2; R2 = H, C1-6 aliph. chain; m, p = 0, 1; L1-L3 = single bond, O, S, NH, NR2, C1-10 alkylene, etc.; R3 = R1, or R3R3 = (substituted) (CH2)4; R4 = CHR1CO2X; if x = 2, R4 = CHR1CO2X or R4R4 = single bond]. Carboxyl groups which are not complexed may be present as salts of physiol. compatible cations or as amides of the form -C(O)NR12. Thus, the Gd(III) complex of 3,6,9-triaza-3,6,9-tris(carboxymethyl)-4-(4-ethoxybenzyl)undecanedioic acid di-Na salt was administered i.v. at 0.2-0.5 mmol/kg to patients with liver metastases who were examd. 10, 60, and 120 min later by computed tomog. The scan d. of healthy liver tissue increased dose dependently, whereas that of the metastases remained unchanged. The gallbladder and bile ducts were also visualized.
- L3 ANSWER 4 OF 12 CAPLUS COPYRIGHT 1997 ACS
 1996:462516 Document No. 125:137212 Use of chelate compounds as diagnostic agents in the x-ray examination of liver and bile ducts. Maier, Franz-Karl; Bauer, Michael; Krause, Werner; Speck, Ulrich; Schuhmann-Giampieri, Gabriele; Muehler, Andreas; Balzer, Thomas; Press, Wolf-Ruediger (Schering A.-G., Germany). PCT Int. Appl. WO 9616678 A1 960606, 5 pp. DESIGNATED STATES: W: AU, BY, CA, CN, CZ, FI, HU, JP, KR, MX, NO, NZ, PL, RU, SK, UA, VN; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (German). CODEN: PIXXD2. APPLICATION: WO 95-EP4547 951120. PRIORITY: US 94-351086 941130; US 95-387408 950213; US 95-480566 950607.
- AB Metal complexes of DTPA derivs. substituted with a benzyl group in the 4 or 5 position are suitable for use as contrast media in computed tomog. of the liver and the bile ducts. Suitable metals are of at. no. 44-51 and 56-83. Thus, the Gd(III) complex of 3,6,9-triaza-3,6,9-tris(carboxymethyl)-4-(4-ethoxybenzyl)undecanedioic acid di-Na salt was infused i.v. at 0.2-0.5 mmol/kg to patients with liver metastases who were examd. 10, 60, and 120 min later by computed tomog. The scan d. of healthy liver tissue increased dose dependently, whereas that of the metastases remained unchanged. The gallbladder and bile ducts were also visualized.
- L3 ANSWER 5 OF 12 CAPLUS COPYRIGHT 1997 ACS
 1995:772691 Document No. 123:186924 Haloaryl-substituted metal complexes in a pharmaceutical medium, their use in diagnostics, and their preparation. Krause, Werner; Maier, Franz Karl; Press, Wolf-Ruediger; Schuhmann-Giampieri, Gabriele D.; Bauer, Michael; Schmitt-Willich, Heribert (Schering A.-G., Germany). Ger. Offen. DE 4341724 A1 950608, 36 pp. (German). CODEN: GWXXBX. APPLICATION: DE 93-4341724 931203.
- AB Polyaminopolycarboxylic acids and their transition metal, Group IIA, Group IIIA and Group IVA metal complexes, in particular Gd complexes were prepd. These complexes can be used in NMR and x-ray diagnostics.

L3 ANSWER 6 OF 12 CAPLUS COPYRIGHT 1997 ACS
1995:487801 Document No. 122:240449 Preparation of somatostatin analogs containing chelating groups and their radiolabeled compositions.. Albert, Rainer; Maecke, Helmut (Sandoz Ltd., Switz.; Sandoz-Patent-GmbH; Sandoz Erfindungen Verwaltungsgesellschaft M.B.H.). Eur. Pat. Appl. EP 607103 A2 940720, 19 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE. (English). CODEN: EPXXDW. APPLICATION: EP 94-810008 940110. PRIORITY: GB 93-510 930112; GB 93-13129 930624; GB 93-15561 930728.

AB XNHP [X = Q1, R1CH2R2NH; R21-R28 = H, alkyl, hydroxyalkyl; 1 of R29, R30 = H, alkyl, protecting group, the other = H, alkyl; s = 2-4; Z = divalent group; Y1 = bond, spacer group; R1 = bifunctional chelating group derived from a polyaminopolycarboxylic acid or anhydride bearing the moiety CH2R2NHY2 on a tertiary C atom; R2 = alkylene, (substituted) phenylene; Y2 = CO, spacer group having CO on one end and a CH2 group on the other, or having CO groups on both ends; PNH = N-terminal residue of a somatostatin], and salts and complexes with nuclides, were prepd. Thus, N,N,N',N'',N'''-pentakis(tert-butoxycarbonylmethyl)-1-[(4-aminophenyl)methyl]diethylenetriamine was coupled to oxidized form Suc-D-Phe-Cys-Tyr-D-Trp-Lys(FMOC)-Thr-Cys-Thr-OH (Suc = succinyl) (prepn. given) using DCC/hydroxybenzotriazole in DMF followed by FMOC cleavage with piperidine in DMF and ester cleavage with CF3CO2H/ethanedithiol in CH2Cl2 to give title compd. I. The ¹¹¹In complex of I was prepd. Title compds. are claimed for use as drugs and imaging agents.

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 1997 ACS
1994:675494 Document No. 121:275494 Radiolabeled peptides, especially technetium-99m-labeled peptides, for diagnostic imaging. Dean, Richard T. (Diatech, Inc., USA). PCT Int. Appl. WO 9419024 A2 940901, 35 pp. DESIGNATED STATES: W: AU, CA, JP, KR, US; RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN: PIXXD2. APPLICATION: WO 94-US1894 940218. PRIORITY: US 93-19864 930219.

AB This invention relates to reagents, radiolabeled reagents and methods for producing such reagents and radiolabeled reagents. Specifically, the invention relates to Tc-99m-labeled peptides that specifically bind to sites of infection, inflammation thrombosis, atherosclerosis and neoplastic growth in vivo, methods and kits for making such peptides, and methods for using such peptides to image sites in a mammalian body. Peptides were prepd. by solid phase peptide synthesis and radiolabeled with Tc-99m. Sites of infection in rabbits were imaged by scintigraphic imaging using Tc-99m-labeled AcKKKKKC(Acm)GGPLYKKIIKKLLS (Acm = acetamidomethyl).

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 1997 ACS
1992:194874 Document No. 116:194874 Preparation of diethylenetriaminetetraacetic acid complexes as contrast agents as diagnostic agents.. Schmitt-Willich, Heribert; Platzek, Johannes; Gries, Heinz; Schuhmann-Giampieri, Gabriele; Vogler, Hubert; Weinmann, Hanns Joachim (Schering A.-G., Germany). Eur. Pat. Appl. EP 405704 A2 910102, 26 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 90-250165 900627. PRIORITY: DE 89-3922005 890630.

AB Title compds. [I; Z1, Z2 = H, (CH2)m-(C6H4)q-Ok-(CH2)n-(C6H4)l-Or-R; m, n = 0, 1-20 integer; k, l, q, r = 0, 1; R = H, (substituted) alkyl, CH2CO2R1; R1 = H, alkyl, benzyl; X = H, metal ion, etc.; other provisos] were prepd. 3,6,9-Triaza-3,6,9-tris(tert-butoxycarbonylmethyl)-4-(4-hydroxybenzyl)undecandicarboxylic acid di-tert-Bu ester was O-methylated with MeI in THF contg. NaH to give the 4-methoxybenzyl deriv., which was hydrolyzed and then reacted with Gd2O3 in water to give I [Z1 = 4-methoxybenzyl; Z2 = X = H] Gd complex (II). II at 0.06 mmol/kg i.v. gave very clear nuclear spin tomograms of rat organs compared with the control.

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L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 1997 ACS
1992:40918 Document No. 116:40918 Preparation of monoamides and their metal complexes as contrast agents for NMR imaging. Gries, Heinz; Klieger, Erich; Raduechel, Bernd; Schmitt-Willich, Heribert; Weinmann, Hanns Joachim; Vogler, Hubert; Schuhmann-Giampieri, Gabriele; Conrad, Juergen (Schering A.-G., Germany). Eur. Pat. Appl. EP 450742 A1 911009, 25 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 91-250089 910405. PRIORITY: DE 90-4011684 900406.

AB Title compds. (XO₂CCH₂)₂NCHZ₁CHZ₂N(CH₂CO₂X)(CH₂)₂N(CH₂CO₂X)CH₂CONR₂ 3 [Z₁, Z₂ = H, (CH₂)_m(C₆H₄)_q(O)_k(CH₂)_n(C₆H₄)_l(O)_rR; m, n = 0-20; k, l, q, 4r = 0, 1; R = H, (substituted) C₁-6 alkyl, CH₂CO₂R₁; R₁ = H, C₁-6 alkyl, CH₂Ph; R₂, R₃ = aryl, aralkyl, carboxy- or sulfonyl-substituted C₁-20 (cyclic) alkyl, etc.; X = H, metal ion of at. no. 21-29, 31, 32, 37-40, 42-44, 49, 57-83; with provisos] were prep'd. as contrast agents for NMR imaging. Thus, N₃-(2,6-dioxomorpholinoethyl)-N₆-(ethoxycarbonylmethyl)-3,6-diazaoctanedicarboxylic acid (prepn. given) in DMF was treated with Et₃N and 11-aminoundecanoic acid and the resulting product hydrolyzed to give 3,6-bis(carboxymethyl)-9-(10-carboxydecylcarbamoylmethyl)-3,6,9-triazaundecanedicarboxylic acid (I). The complex formed from 15 mmol I and 7.5 mmol Gd₂O₃ was prep'd. and used as a contrast agent for NMR imaging.

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 1997 ACS
1990:140769 Document No. 112:140769 Polymer-bonded complexing agents and their complexes for use in pharmaceuticals. Deutsch, Julius; Schmitt-Willich, Heribert; Gries, Heinz; Conrad, Juergen; Neumeier, Reinhard (Schering A.-G., Fed. Rep. Ger.). Ger. Offen. DE 3806795 A1 890907, 47 pp. (German). CODEN: GWXXBX. APPLICATION: DE 88-3806795 880229.

AB The title complexing agents, useful in diagnosis and therapy, consists of polymers bearing CO₂H or P acid groups and, optionally, ions with at. no. 21-29, 31, 32, 37-39, 42-44, 49, or 57-83 or cations of inorg. or org. bases, amino acids, or amino amides. Stirring 7.6 g di-tert-Bu 2,6,9-tris[(tert-butoxycarbonyl)methyl]-4-(4-carbomethoxybenzyl)undecanedioate (the multistep prepn. of which is described), 1.28 g iso-Bu chloroformate, 1.9 g Et₃N, and 100 mL THF at 0.degree. for 1 h, adding an aq. soln. of 533.2 mg polyethylenimine with cooling, and stirring at room temp. gave 4.35 g cryst. powder which formed a Gd complex contg. 20.67% Gd. Similar Gd complexes were used as contrast agents in the diagnosis of tumors by NMR.

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 1997 ACS
1990:135602 Document No. 112:135602 Cyclic aliphatic aza complexants, complexes and complex salts, process for their preparation and pharmaceutical agents containing them. Deutsch, Julius; Conrad, Juergen (Schering A.-G., Fed. Rep. Ger.). Eur. Pat. Appl. EP 305320 A2 890301, 37 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (German). CODEN: EPXXDW. APPLICATION: EP 88-730187 880823. PRIORITY: DE 87-3728525 870824.

AB The aliph. aza derivs. I and II [B, D, E = (CH₂)_k(CHR₂)_n(CH₂)_l; R, R₁, R₂ = H, (un)substituted alkylene having terminal functional group or macromol.; V = Q, radical related to I or II; A = (CH₂)_mCHR₂(CH₂)_l; V₁ = V, CH₂X; X = CO₂Y, PO₃HY; Y = H, metal; k, l = 0-5; m = 1-5; n = 0, 1; q = 0-2; r = 0-3] are prep'd. as complexing agents and complexes for diagnosis and therapy (no data). A soln. of 3-aza-1-(4-hydroxybenzyl)-N,N,N,N,N-pentakis-(8-aza-2-hydroxy-4-oxa-6,10-diaminodecyl)pentane-1,5-diamine (prepn. given) and Et₃N in MeOH was treated with a soln. of di-tert-Bu 3,6,9-triaza-3,6,9-tris(tert-butoxycarbonylmethyl)-4-[(oxiranylmethoxy)methyl]undecanedicarboxylate in MeOH, followed by refluxing for 36 h, to give 3-aza-1,5-diamino-2-(4-hydroxybenzyl)-N,N,N,N,N-pentakis[8-aza-6,10-diamino-2-hydroxy-4-oxa-N',N',N',N',N'-pentakis-2-hydroxy-4-oxa-6,10-

Ref A0
Paper #10

bis[di(carboxymethylamino)]-8-(carboxymethylaza)decyldecyl]pentane, which was converted into Gd complexes.

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 1997 ACS

1989:554376 Document No. 111:154376 Preparation of (carboxymethylamino)ethylene oligomers and their metal complexes for use as nuclear magnetic resonance and radiographic imaging agents. Deutsch, Julius; Gries, Heinz; Klieger, Erich; Niedballa, Ulrich; Renneke, Franz Josef; Conrad, Juergen; Muetzel, Wolfgang (Schering A.-G., Fed. Rep. Ger.). Ger. Offen. DE 3710730 A1 881020, 57 pp. (German). CODEN: GWXXBX. APPLICATION: DE 87-3710730 870331. The title compds. [I; R1, R2 = H, (substituted) (imino-, phenyleneoxy-, O-, S-, etc. contg.) C1-20 alkylene terminated by another I moiety (connected at R1 or R2) or by a macromol.; X = H, metal ion selected from elements with at. nos. 21-29, 31, 32, 38, 39, 42-44, 49, 57-83; m, n = 0-4, m + n \leq 4], useful as diagnostic imaging agents, for radiotherapy, and as haptens for prepn. of antibodies (no data) were prepd. 4-HOC6H4CH2CH(NH2)CH2NH2.2HCl in DMF contg. KHCO3 was treated at 35.degree. with BrCH2CO2CMe3 in DMF and the mixt. was stirred 2-5 h to give 63% Me3CO2CCH2NHCH(CH2C6H4OH-4)CH2NHCH2CO2CMe3. The latter in THF was treated with NaH and then PhCH2O2CNH(CH2)3Br in THF. The mixt. was stirred overnight and the product was hydrogenolyzed, condensed with maleic anhydride, and hydrolyzed with CF3CO2H to give 3,6-diaza-3,6-bis(carboxymethyl)-4-[4-(3-maleimidopropoxy)benzyl]suberic acid. The Gd complex of the latter was prepd. in NH4OAc-aq using Gd(OAc)3.

W088/07521 AB
US 5482700

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=> file wpids

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE
ENTRY
62.96

TOTAL
SESSION
173.43

SINCE FILE
ENTRY
-11.59

TOTAL
SESSION
-11.59

FILE 'WPIDS' ENTERED AT 10:20:34 ON 24 APR 1997
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FILE LAST UPDATED: 17 APR 97 <970417/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK 9716 <199716/DW>

DERWENT WEEK FOR CHEMICAL CODING: 9708

DERWENT WEEK FOR POLYMER INDEXING: 9713

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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>>> PCT PUBLICATIONS FROM 19 DECEMBER 1996 - SEE NEWS <<<

=> s ep450742/pn

L4 1 EP450742/PN
(EP450742/PN)

=> d

L4 ANSWER 1 OF 1 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 91-297527 [41] WPIDS

DNC C91-128629

TI DTPA-mono amide derivs. useful in diagnostics and radiotherapy -
especially as NMR contrast agents, e.g. for pinpointing tumours in
the hepatobiliary and gastrointestinal system.

DC B05

IN CONRAD, J; GRIES, H; KLIEGER, D E; RADUCHEL, B; SCHMITT-WILLICH, H;
SCHUHMANN-GIAMPIERI, G; VOGLER, H; WEINMANN, H; KLIEGER, E; SCHMITT,
H; SCHUHMANN, G; WEINMANN, H J; RADUECHEL, B

PA (GRIE-I) GRIES H; (SCHD) SCHERING AG

CYC 12

PI EP 450742 A 911009 (9141)*

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DE 4011684 A 911010 (9142)

AU 9174186 A 911010 (9148)

NO 9101345 A 911007 (9149)

HU 57180 T 911128 (9151)

CA 2039846 A 911007 (9201)

FI 9101646 A 911007 (9203)

PT 97263 A 920131 (9210)

ZA 9102550 A 920129 (9210)

NZ 237711 A 931223 (9403)

C07C237-06

AU 644639 B 931216 (9406)

C07C237-12

JP 06065174 A 940308 (9414)

16 pp

C07C237-06

EP 450742 B1 940706 (9426)

DE

26 pp

C07C237-04

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DE 59102092 G 940818 (9432)

C07C237-04

ES 2057746 T3 941016 (9442)

C07C237-04

IE 65923 B 951129 (9606)

C07C237-04

NO 180582 B 970203 (9712)

C07C237-04

ADT EP 450742 A EP 91-250089 910405; DE 4011684 A DE 90-4011684 900406;
ZA 9102550 A ZA 91-2550 910405; NZ 237711 A NZ 91-237711 910405; AU
644639 B AU 91-74186 910408; JP 06065174 A JP 91-57976 910404; EP
450742 B1 EP 91-250089 910405; DE 59102092 G DE 91-502092 910405, EP
91-250089 910405; ES 2057746 T3 EP 91-250089 910405; IE 65923 B IE
91-1155 910408; NO 180582 B NO 91-1345 910405
FDT AU 644639 B Previous Publ. AU 9174186; DE 59102092 G Based on EP
450742; ES 2057746 T3 Based on EP 450742; NO 180582 B Previous Publ.
NO 9101345
PRAI DE 90-4011684 900406
IC A61K031-19; A61K033-00; A61K037-02; A61K043-00; A61K049-00;
C07C229-16; C07C229-26; C07C237-04; C07C309-15; C07F005-00;
C07F009-94; C07K005-02
ICM C07C237-06; C07C237-12
ICS A61K031-19; A61K033-00; A61K037-02; A61K043-00; A61K049-02;
A61K049-04; C07C229-16; C07C229-26; C07C237-04; C07C237-08;
C07C309-15; C07C309-51; C07C323-41; C07C323-42; C07F005-00;
C07F009-94; C07K005-02

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1 DE3806795/PN
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L5 3 DE3806795/PN OR EP305320/PN OR DE3710730/PN

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L5 ANSWER 1 OF 3 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 89-257918 [36] WPIDS
DNC C89-114665
TI New polymers contg. carboxylic acid ligand residues - and their
metal complexes opt. coupled to bio- or macro-molecules, useful e.g.
as diagnostic reagents for X-ray scanning.
DC A96 B04 J04
IN CONRAD, J; DEUTSCH, J; GRIES, H; NEUMEIER, R; SCHMITTWIL, H;
SCHMITT-WILLICH, H
PA (SCHD) SCHERING AG; (SCHD) SCHERING BERLIN & BERGKAMEN AG
CYC 15
PI EP 331616 A 890906 (8936)* DE 50 pp
R: AT BE CH DE ES FR GB IT LI LU NL SE
DE 3806795 A 890907 (8937) <--
NO 8900832 A 880925 (8944)
JP 02196864 A 900803 (9037)
EP 331616 A3 920304 (9325)
NO 174394 B 940117 (9408) C08G069-08
EP 331616 B1 951108 (9549) DE 71 pp C08G069-48
R: AT BE CH DE ES FR GB GR IT LI LU NL SE
DE 58909479 G 951221 (9605) C08G069-48
ADT EP 331616 A EP 89-730046 890227; DE 3806795 A DE 88-3806795 880229;
JP 02196864 A JP 89-43346 890227; EP 331616 A3 EP 89-730046 890227;
NO 174394 B NO 89-832 890227; EP 331616 B1 EP 89-730046 890227; DE
58909479 G DE 89-509479 890227, EP 89-730046 890227
FDT NO 174394 B Previous Publ. NO 8900832; DE 58909479 G Based on EP
331616
PRAI DE 88-3806795 880229
IC A61K031-66; A61K033-24; A61K049-00; C08F008-30; C08F020-02;
C08G069-48; C08G073-02; C08L101-00; G01N033-48
ICM C08G069-08
ICS A61K031-66; A61K033-24; A61K037-785; A61K049-00; C08F008-30;
C08F020-02; C08G069-48; C08G073-02; C08L101-00; G01N033-48
L5 ANSWER 2 OF 3 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
AN 89-062955 [09] WPIDS

DNC C89-027770
 TI New carboxymethyl or phosphono-methyl poly amine derivs. - used with metal complexes as diagnostic or therapeutic agents.
 DC B05
 IN CONRAD, J; DEUTSCH, J
 PA (SCHD) SCHERING BERLIN & BERGKAMEN AG; (SCHD) SCHERING AG
 CYC 14
 PI EP 305320 A 890301 (8909)* DE 36 pp <--
 R: AT BE CH DE ES FR GB GR IT LI LU NL SE
 DE 3728525 A 890316 (8912)
 JP 01139555 A 890601 (8928)
 EP 305320 B1 920923 (9239) DE 54 pp C07C229-28 <--
 R: AT BE CH DE ES FR GB GR IT LI LU NL SE
 DE 3874844 G 921029 (9245) C07C229-28
 ES 2052767 T3 940716 (9430) C07C229-28
 ADT EP 305320 A EP 88-730187 880823; DE 3728525 A DE 87-3728525 870824;
 JP 01139555 A JP 88-208493 880824; EP 305320 B1 EP 88-730187 880823;
 DE 3874844 G DE 88-3874844 880823, EP 88-730187 880823; ES 2052767
 T3 EP 88-730187 880823
 FDT DE 3874844 G Based on EP 305320; ES 2052767 T3 Based on EP 305320
 PRAI DE 87-3728525 870824
 IC ICM C07C229-28
 ICS A61K031-55; A61K031-555; A61K043-00; A61K049-00; C07C091-08;
 C07C097-02; C07C099-00; C07C101-26; C07C103-44; C07C143-78;
 C07D125-06; C07D207-45; C07D207-452; C07D257-02; C07D303-20;
 C07D403-12; C07F005-00; C07F009-38; C07K017-06

L5 ANSWER 3 OF 3 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
 AN 88-292822 [41] WPIDS
 DNC C88-129833
 TI New poly amine poly acetic acid derivs. and complexes - useful as pharmaceuticals and diagnostic agents.
 DC B04 B05 D16 P31
 IN CONRAD, J; DEUTSCH, J; GRIES, H; KLIEGER, E; MUETZEL, W; NIEDEBALLA, U; RENNEKE, F; MUTZEL, W; RENNEKE, F J
 PA (SCHD) SCHERING AG
 CYC 13
 PI WO 8807521 A 881006 (8841)* DE 167 pp
 RW: AT BE CH DE FR GB IT LI LU NL SE
 W: JP US
 DE 3710730 A 881020 (8843) <--
 EP 357622 A 900314 (9011) DE
 R: AT BE CH DE FR GB IT LI LU NL SE
 JP 02502820 W 900906 (9042)
 US 5482700 A 960109 (9608) 25 pp A61B005-055
 ADT WO 8807521 A WO 88-DE199 880328; DE 3710730 A DE 87-3710730 870331;
 EP 357622 A EP 88-902796 880328; JP 02502820 W JP 88-502746 880328;
 US 5482700 A Cont of WO 88-DE199 880328, Cont of US 89-430442
 891002, Cont of US 91-715713 910618, Cont of US 93-66646 930525, US
 94-269504 940701
 PRAI DE 87-3710730 870331
 IC A61K031-18; A61K039-38; A61K039-39; A61K043-00; A61K049-00;
 C07C093-06; C07C101-26; C07C103-38; C07C109-09; C07C229-16;
 C07D207-45; C07D233-61; C07D295-12; C07D303-36; C07F007-18
 ICM A61B005-055
 ICS A61K031-18; A61K039-38; A61K039-39; A61K043-00; A61K049-00;
 C07C093-06; C07C101-26; C07C103-38; C07C109-09; C07C229-16;
 C07D207-45; C07D233-61; C07D295-12; C07D303-36; C07F007-18